

IN THE CLAIMS:

1. (currently amended) A compound of the general formula: $R^1R^2MR^4R^5$ wherein R^1 and R^2 are ~~independently an aryl, alkyl, alkenyl or alkynyl group, wherein at least one of R^1 and R^2 is~~ each fully or partially fluorinated aryl, and at least one of R^1 and R^2 contains one or more fully or partially fluorinated methyl, vinyl or ethyl groups, wherein M is selected from group 14 of the periodic table is Si, wherein and R^4 and R^5 are ~~independently an alkoxy group, OR^3 , or a~~ each a halogen group, X, except where M is Si, R^1 and R^5 are both ethoxy groups or both chlorine groups, and R^1 and R^2 are perfluorinated phenyl groups.

2. (original) The compound of claim 1, wherein X is Br or Cl.

3. (original) The compound of claim 1, wherein R^1 and/or R^2 is fully fluorinated.

4-11. (canceled)

12. (currently amended) The compound of claim 1, wherein R^1 is a fully or partially fluorinated phenyl group substituted with

a fully or partially fluorinated methyl, vinyl or ethyl ~~groups~~
group.

13-14. (canceled)

15. (original) The compound of claim 1, wherein X is Cl.

16. (original) The compound of claim 1, wherein X is Br.

17-50. (canceled)

51. (original) The compound of claim 1, wherein both R1
and R2 are fully fluorinated.

52. (original) The compound of claim 1, wherein one of R1
and R2 is fully fluorinated and the other is partially fluorinated.

53-56. (canceled)

57. (withdrawn) A method for making the compound $R^1R^2MR^4R^5$
of claim 1, comprising:

providing a compound $\text{MOR}_3\text{X}_{4-q}$ where M is an element selected from group 14 of the periodic table, OR3 is an alkoxy group, X is a halogen and q is 3 or 4;

reacting the compound $\text{MOR}_3\text{X}_{4-q}$ with either a) Mg and R_1X_2 where X_2 is Cl, Br or I and R_1 is an alkyl, alkenyl, aryl, epoxy or alkynyl group, and $q=4$, or b) with R_1M_1 where R_1 is an alkyl, alkenyl, aryl, epoxy or alkynyl group and M_1 is an element from group 1 of the periodic table, and $q=3$ or 4;

so as to form R_1MOR_3 ;

reacting R_1MOR_3 with a) Mg and R_2X_2 where X_2 is Cl, Br or I and R_1 is an alkyl, alkenyl, aryl, epoxy or alkynyl group, or b) with R_2M_1 where R_2 is an alkyl, alkenyl, aryl, epoxy or alkynyl group and wherein R_2 is fully or partially fluorinated and M_1 is an element from group 1 of the periodic table, or c) with a halogen or halogen compound followed by reacting with R_2M_1 where R_2 is an alkyl, alkenyl, aryl, epoxy or alkynyl group, wherein M_1 is an element from group 1 of the periodic table;

so as to form $\text{R}^1\text{R}^2\text{MR}^4\text{R}^5$ wherein R_1 and/or R_2 is fully or partially fluorinated;

and wherein if R_4 and R_5 are a halogen, further reacting $\text{R}^1\text{R}^2\text{MR}^4\text{R}^5$ with a halogen or halogen compound.

58. (withdrawn) A method for using the compound of claim 1, comprising:

providing the compound of claim 1;

hydrolyzing the compound of claim 1 in the presence of H₂O or D₂O alone or with another compound;

so as to form a compound with an -M-O-M-O- backbone with at least R₁ and R₂ groups bound thereto and having a molecular weight of from 500 to 10,000.

59. (withdrawn) The method of claim 58, wherein the compound has a molecular weight of from 1500 to 5000.